

What is claim d is:

1. A contents providing system having a broadcast station apparatus and a television set, wherein

the broadcast station apparatus comprises a multiplexing  
5 signal transmitter configured to transmit a multiplexing signal  
multiplexing broadcast program information and contents  
information;

the television set comprises:

a multiplexing signal receiver configured to receive the  
10 multiplexing signal;

a separator configured to separate the broadcast program  
information and the contents information from the received  
multiplexing signal;

a reproducer configured to reproduce the broadcast  
15 program information; and

a transmitter configured to transmit the contents  
information to a mobile terminal during the reproducing of the  
broadcast program information.

20 2. The contents providing system according to claim 1,  
wherein

the multiplexing signal transmitter of the broadcast  
station apparatus transmits the multiplexing signal  
multiplexing each of a plurality of contents data on the  
25 broadcast program information independently, the contents  
information being divided into the plurality of contents data;

the separator of the television set separates the  
broadcast program information and the plurality of contents  
data from the received multiplexing signal;

the transmitter of the television set transmits the plurality of contents data to the mobile terminal during the reproducing of the broadcast program information.

5           3. The contents providing system according to claim 1, wherein

the mobile terminal comprises a request transmitter configured to transmit an information provision request to the television set during the reproducing of the broadcast program  
10 information;

the television set comprises an information provision request receiver configured to receive the information provision request; and

the transmitter of the television set transmits the  
15 contents information in accordance with reception of the information provision request in the information provision request receiver during the reproducing of the broadcast program information.

20           4. The contents providing system according to claim 2, wherein

the television set comprises an information provision request receiver configured to receive an information provision request from the mobile station during the reproducing of the  
25 broadcast program information; and

the transmitter of the television set transmits the contents data in accordance with reception of the information provision request in the information provision request receiver during the reproducing of the broadcast program information.

5. A mobile terminal comprising:

a receiver configured to receive a plurality of contents data transmitted from a television set during the reproducing of broadcast program information; and

a creator configured to create contents information based on the plurality of contents data during the reproducing of the broadcast program information.

10 6. The mobile terminal according to claim 5, the mobile terminal further comprising

a request transmitter configured to transmit an information provision request to the television set during the reproducing of the broadcast program information; and wherein

15 the receiver receives the contents data transmitted from the television set in accordance with reception of the information provision request during the reproducing of the broadcast program information.